

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A method of operating a base station subsystem, the method comprising:

processing a call initiation request for a call from a mobile station;

~~contemporaneously, allocating resources within the base station subsystem needed to grant network access to the mobile station~~

identifying ~~the~~ a call from a mobile station as a packet data call for specific packet-based applications;

in response to the identification of the call as a packet data call for specific packet-based applications, generating a setup request message for delivery from a routing agent within the base station subsystem to a call processor within the base station subsystem, combined-setup request message and sending the combined-setup request message to a processor within the base station subsystem, the combined-setup the setup request message comprising a operable for initiating call setup request and a radio link setup request; and

in response to receiving the ~~combined-setup~~ request message,

initiating setup of the call, the setup initiation comprising transmitting a message to a packet control function operable for allocating packet data resources to establish a packet data session for the call, and

contemporaneously with the call setup initiation, allocating radio link related resources to establish a radio link between the mobile station and the base station subsystem for the call, and

~~transmitting a message to a packet control function operable for allocating packet data resources to establish a packet data session for the call.~~

2. (Previously Presented) A method of operating a base station subsystem, as set forth in claim 1, wherein the call initiation request is at least a one of an origination request, a page response message or a reconnect message.

3. (Previously Presented) A method of operating a base station subsystem, as set forth in claim 1, wherein the specific packet-based applications is a one of a voice-over-IP (VoIP) application or a push-to-talk (PTT) application.

4. (Currently Amended) A method of operating a base station subsystem, as set forth in claim 1, wherein the specific packet-based applications is a one of a push-to-media application or ~~and~~ an instant messaging application.

5. (Original) A method of operating a base station subsystem, as set forth in claim 1, wherein the resources are hardware resources.

6. (Original) A method of operating a base station subsystem, as set forth in claim 1, wherein the resources are software resources.

7. (Previously Presented) A method of operating a base station subsystem, as set forth in claim 1, wherein processing the call initiation request and contemporaneously allocating resources within the base station subsystem is performed in a routing agent.

8. (Original) A method of operating a base station subsystem, as set forth in claim 1, wherein the resources further comprise resource manager resources.

9. (Original) A method of operating a base station subsystem, as set forth in claim 1, wherein the resources include call processing resources.

10. (Currently Amended) A method of operating a base station subsystem, as set forth in claim 1, wherein contemporaneously allocating resources is performed during a user authentication process.

11. (Currently Amended) A method of operating a base station subsystem, as set forth in claim 1, wherein the ~~the~~-specific packet-based applications are delay-sensitive applications.

12. - 16. (Canceled)

17. (Currently Amended) A method of operating a base station subsystem, the method comprising:

receiving a call initiation request for a call from a mobile station;

identifying the call as a packet data call for specific packet-based applications;

in response to identifying the call, generating a setup request message comprising a call setup request and a radio link setup request; and

in response to receiving ~~a combined~~ the setup request message ~~operable for initiating call setup and radio link setup,~~

allocating radio frequency resources for the call, and

contemporaneously with allocating radio frequency resources, allocating packet session resources for the call.

18. (Previously Presented) A method of operating a base station subsystem, as set forth in claim 17, wherein a routing agent initiates the allocating radio frequency resources.

19. (Previously Presented) A method of operating a base station subsystem, as set forth in claim 17, wherein a call processing agent initiates the allocating packet resources.

20. (Currently Amended) A method of operating a wireless network, the method comprising:

receiving a call initiation request for a call from a mobile station;

identifying the call as a packet data call for specific packet-based applications;

in response to identifying the call, generating a setup request message comprising a call setup request and a radio link setup request; and

~~in response to receiving a combined~~ the setup request message operable for initiating call setup and radio link setup,

performing a Packet Control Function (PCF) allocation and connection process,  
comprising allocating Packet Control Function (PCF) PCF resources for a packet data,  
establishing an A10 interface between a PCF and a Packet Data Service Node (PDSN),  
~~contemporaneously and~~ connecting the PCF resources for the packet data session in response to allocating the PCF resources; and,

contemporaneously with performing the PCF allocation and connection process,  
performing a channel assignment process between the mobile station and a base station subsystem.

21. (Currently Amended) A method of operating a wireless network, as set forth in claim 20, wherein a PCF performs ~~the allocating PCF resources.~~

22. (Previously Presented) A method of operating a wireless network as set forth in claim 20, wherein the specific packet-based applications is a one of a voice-over-IP (VoIP) application or a push-to-talk (PTT) application.

23. (Currently Amended) A method of operating a wireless network, the method comprising:

receiving a call initiation request for a call from a mobile station;

identifying the call as a packet data call for specific packet-based applications;

in response to identifying the call, generating a setup request message comprising a call setup request and a radio link setup request; and

in response to receiving a combined the setup request message operable for initiating call setup and radio link setup,

performing a Packet Control Function (PCF) allocation and connection process, comprising allocating and connecting Packet Control Function (PCF) PCF resources for a packet data session, and establishing an A10 interface between a PCF and a Packet Data Service Node (PDSN),

contemporaneously with the PCF allocation and connection process, performing a channel assignment process, and

initiating a service connection request in response to establishing the A10 interface and in response to performing the channel assignment process.

24. (Previously Presented) A method of operating a wireless network, as set forth in claim 23, wherein the specific packet-based applications is a one of a voice-over-IP (VoIP) application or a push-to-talk (PTT) application.



25. (Currently Amended) A method of operating a wireless network, as set forth in claim 23, wherein the channel assignment process is performed between a call processor and the ~~Mobile Station~~ mobile station.

26. (Original) A method of operating a wireless network, as set forth in claim 23, wherein the service connection request is generated by a routing agent.